

**THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY**

**[MD 1022]**

**OCTOBER 2022**

**Sub. Code: 2021**

**M.D. DEGREE EXAMINATION**

**BRANCH V – PHYSIOLOGY**

**PAPER IV – HISTORY OF MEDICINE, RECENT ADVANCES IN  
CLINICAL PHYSIOLOGY, ENDOCRINOLOGY AND  
REPRODUCTIVE SYSTEMS**

*Q.P. Code: 202021*

**Time : Three Hours**

**Maximum : 100 Marks**

**I. Essay Questions:**

**(2 x 15 = 30)**

1. Discuss in detail about the neuro – endocrine control of menstrual cycle. Add a note on effects of menopause.
2. Discuss in detail about calcium homeostasis. What is latent tetany?

**II. Short notes:**

**(10 x 5 = 50)**

1. Metabolic syndrome.
2. Actions of testosterone in adult male.
3. Feto – placental unit.
4. Selective secretion.
5. Insulin – Glucagon Molar ratios.
6. Leptin.
7. Synthesis of thyroid hormones.
8. Somatomedins.
9. E.H. Starling.
10. Genetic counselling.

**III. Reasoning Out:**

**(4 x 5 = 20)**

1. Why fertilization occurs in uterine tubes?
2. Hyperrestrinism in liver failure.
3. Lugol's iodine may be given before Thyroidectomy.
4. Acetone breath in patient in Diabetes Mellitus.

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